

What is claimed is:

1. An aspherical spectacle lens having a prismatic power to correct hereophoria of an eye comprising:

a front surface; and

a back surface,

wherein at least one of said front and back surfaces is a rotationally-asymmetrical aspherical surface that has a rotationally-asymmetrical component to correct the aberrations caused by adding said prismatic power.

2. The aspherical spectacle lens according to claim 1, wherein said back surface is said rotationally-asymmetrical aspherical surface, and assuming that a framing reference point is coincident with a pupil position of a user when the spectacle lens is installed on a frame, curvature of an intersection line of a plane containing the normal to said rotationally-asymmetrical surface at said framing reference point and said rotationally-asymmetrical surface at the prism base side is larger than that at the apex side.

3. The aspherical spectacle lens according to claim 1, wherein said front surface is said rotationally-asymmetrical aspherical surface, and assuming that a framing reference point is coincident with a pupil position of a user when the spectacle

lens is installed on a frame, curvature of an intersection line of a plane containing the normal to said rotationally-asymmetrical surface at said framing reference point and said rotationally-asymmetrical surface at the prism base side is smaller than that at the apex side.

4. The aspherical spectacle lens according to claim 1, wherein the condition (1) is satisfied within the ranges of  $10 \leq h \leq 20$  and  $30 \leq \theta \leq 150$ ;

$$C_{2-1}(h, \theta+180) - C_{2-1}(h, \theta) > 0 \dots (1)$$

where

$$C_{2-1}(h, \theta) = C_2(h, \theta) - C_1(h, \theta);$$

$C_1(h, \theta)$  is curvature of an intersection line of a plane, which contains a  $z_1$ -axis and forms angle  $\theta$  (degree) with respect to an  $x_1$ -axis, and said front surface at a point whose distance from a  $z_1$ -axis is  $h$  (mm);

$C_2(h, \theta)$  is curvature of an intersection line of a plane, which contains a  $z_2$ -axis and forms angle  $\theta$  (degree) with respect to an  $x_2$ -axis, and said back surface at a point whose distance from a  $z_2$ -axis is  $h$  (mm);

$z_1$ -axis is a normal to said front surface at a framing reference point that is coincident with a pupil position of a user when the spectacle lens is installed on a frame;

$y_1$ -axis is direction from the base to the apex in a plane perpendicular to the  $z_1$ -axis;

$x_1$ -axis is perpendicular to both of the  $y_1$ - and  $z_1$ -axes in a left-hand coordinate system;

$z_2$ -axis is a normal to said back surface at said framing reference point;

$y_2$ -axis is direction from the base to the apex in a plane perpendicular to the  $z_2$ -axis; and

$x_2$ -axis is perpendicular to both of the  $y_2$ - and  $z_2$ -axes in a left-hand coordinate system.

5. The aspherical spectacle lens according to claim 1, wherein said back surface is said rotationally-asymmetrical surface and the condition (2) is satisfied within the ranges of  $10 \leq h \leq 20$  and  $30 \leq \theta \leq 150$ ;

$$C_2(h, \theta+180) - C_2(h, \theta) > 0 \dots (2)$$

where

$C_2(h, \theta)$  is curvature of an intersection line of a plane, which contains a  $z_2$ -axis and forms angle  $\theta$  (degree) with respect to an  $x_2$ -axis, and said back surface at a point whose distance from a  $z_2$ -axis is  $h$  (mm);

$z_2$ -axis is a normal to said back surface at a framing reference point that is coincident with a pupil position of a user when the spectacle lens is installed on a frame;

$y_2$ -axis is direction from the base to the apex in a plane perpendicular to the  $z_2$ -axis; and

$x_2$ -axis is perpendicular to both of the  $y_2$ - and  $z_2$ -axes

in a left-hand coordinate system.

6. The aspherical spectacle lens according to claim 1, wherein said front surface is said rotationally-asymmetrical surface and the condition (3) is satisfied within the ranges of  $10 \leq h \leq 20$  and  $30 \leq \theta \leq 150$ ;

$$C_1(h, \theta+180) - C_1(h, \theta) < 0 \dots (3)$$

where

$C_1(h, \theta)$  is curvature of an intersection line of a plane, which contains a  $z_1$ -axis and forms angle  $\theta$  (degree) with respect to an  $x_1$ -axis, and said front surface at a point whose distance from a  $z_1$ -axis is  $h$  (mm);

$z_1$ -axis is a normal to said front surface at a framing reference point that is coincident with a pupil position of a user when the spectacle lens is installed on a frame;

$y_1$ -axis is direction from the base to the apex in a plane perpendicular to the  $z_1$ -axis; and

$x_1$ -axis is perpendicular to both of the  $y_1$ - and  $z_1$ -axes in a left-hand coordinate system.

7. The aspherical spectacle lens according to claim 1, wherein said front surface is spherical and said back surface is rotationally-asymmetrical.